

# COURIER GALAXY 10 METER AMATEUR CONVERSION

1. The scope of this conversion is to convert this radio to the amateur 10 meter portion of the band, expand the base channel spread and to change the receive clarifier.
2. Remove the MB8734 PLL chip IC2 from the radio using a grounded temperature controlled soldering iron. Solder wicking or a solder sucker should be used and a minimum amount of heat should be used to avoid damaging the chip. Make sure you and the radio are grounded when you handle the chip. Wrap the old chip in a small piece of aluminum foil and store. Pin 10 must be isolated from ground before installing the new chip in the radio. Inspect the chip side of the P/C board for foil traces or jumpers to ground and cut, if any. Install the new white-coded chip in place of the old chip, observing all necessary safety precautions stated above.
3. A 10 meter switch kit for expanding the channels may be purchased from your Secret CB parts dealer or you may make up your own using the NB/ANL, CB/PA switches in the radio.
4. Remove the red & white wires from the NB switch and tape back separate. Remove the red & orange wires and solder together and tape back. This allows the NB switch to be free for channel expansion, and connects the NB all the time. The switch will be used later.
5. Remove the pink wire from the PA/CB switch and tape back. Remove the brown & violet wires from the switch and solder together and tape back. Remove the white wire from the switch and tape back. Remove the red & yellow wires from the switch and solder together and tape back. This hard-wires the set in the CB position permanently and frees the switch.
6. Run a wire from Pin 10 of the PLL IC2 to one of the top terminals of the PA switch. Run a wire from Pin 11, IC2 to the top terminal of the NB switch. Run a wire from all the middle terminals of the CB & NB switch to the place where you isolated Pin 10 from. Cut a short jumper & install it across each side of the cuts where you isolated Pin 10. This is P/C ground and you are completing the ground path of the P/C board.
7. Set the ANL & PA switches for normal 40 channel operation. Check radio for operation; with this complete, set radio for highest F $\emptyset$  available and align xmitter & VCO adj. L-19 for

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output and do this in small stages, because you can get the radio out of alignment and it will not work at all. Keep moving up in F $\emptyset$  until you can xmit on all F $\emptyset$ , by adjusting L-19. Align xmitter stages L-26, L-27, L-28, L-29, L-36 for maximum with a watt meter and 50 ohm dummy load. Do not do this on the air as these F $\emptyset$  are not allowed for amateur except above 28.000, and also it is discourteous to other operators.

### 8. SLIDER MODIFICATION

- a. Remove the case from the radio and look at the clarifier control 20 K pot VR402.
- b. Remove the red wire that runs from the clarifier control to the P/C board at the P/c board and solder it to ground.
- c. Remove the orange wire that runs from clarifier control to P/C board at the control and tape back. Run a new orange wire from the place where you removed the old wire to pin #1 of IC-5.
- d. Clip R-187, *Short D-35*
- e. Clip D-36. This completes your basic slide modification and will allow +1 & -3 KHz. *(+1, -4) KHz*
- f. For more slide, remove Ct-3 20 pf trimmer. This will allow +3/-3 KHz, but the clarifier will no longer center. You must remove the knob and recenter it.
- g. For more slide - approximately +10/-10, replace D37 with a super diode (available from your Secret CB parts dealer), or for maximum slide, approximately 20 KHz, use a super slide and a super diode.
- h. After you modify your slider a small amount of movement will cause a large amount of slide, so install a 10-turn super pot that will allow you to turn the control 10 times for the same range you had with the old pot you replaced. The 10 turn pots are available from your Secret CB parts dealer.

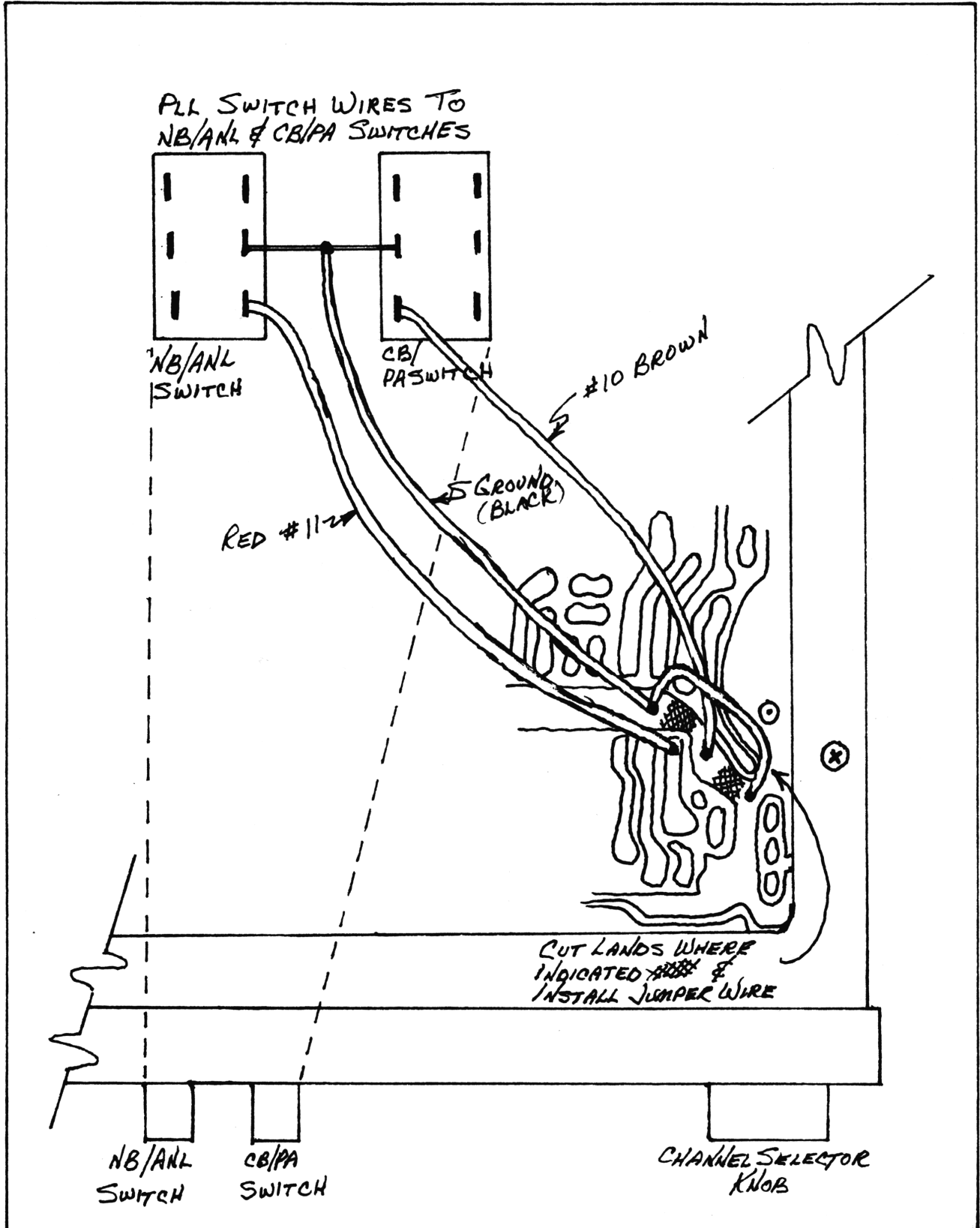
9. Remove the 11.3258 and install the new xtal 11.400 and align as before in small steps. Channel 1 will be 27.825. Start your alignment at channel 1 and work up. This completes the 10 meter modification.

NOTE: This conversion kit, including all necessary parts, and/or the white coded chip is available from your Secret CB parts dealer.

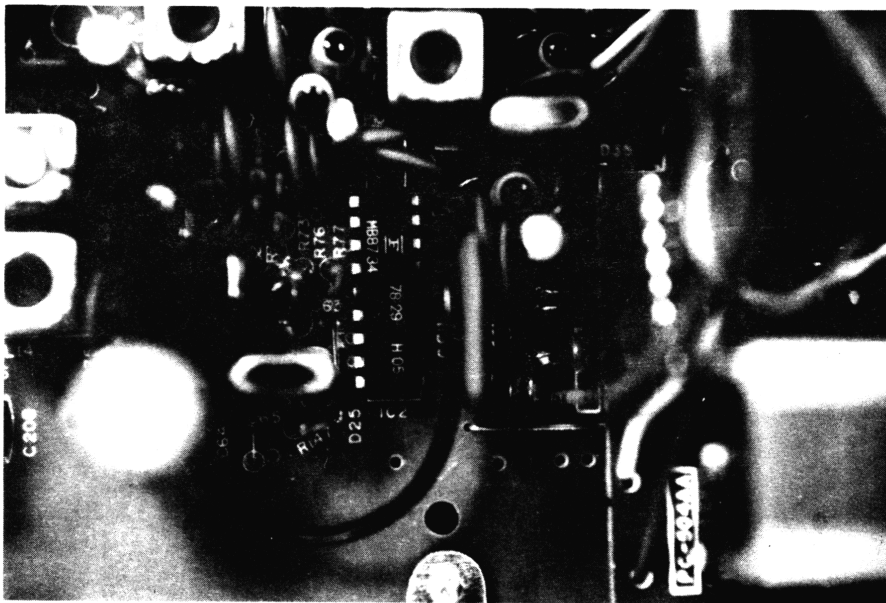
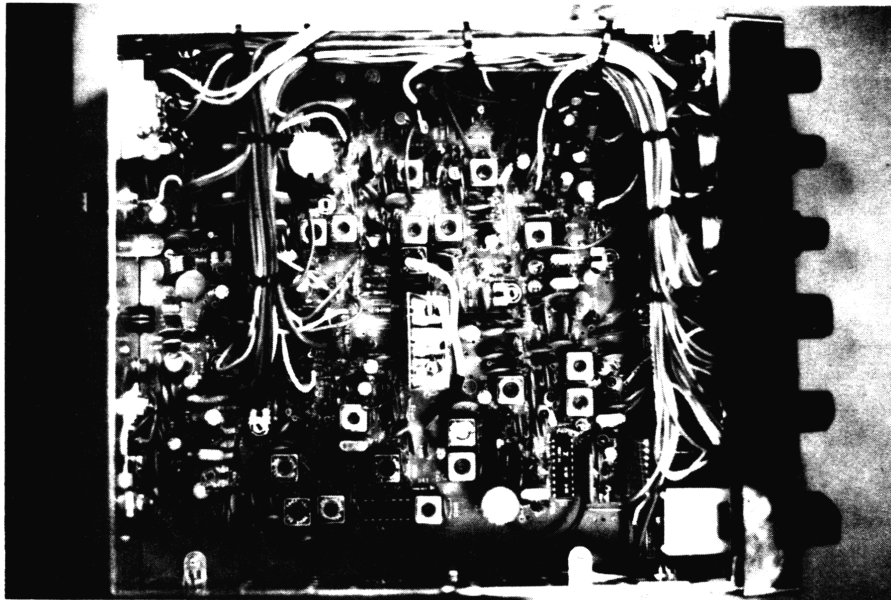
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## CHANNEL MODIFICATION WITH HOOKUP ON NOISE BLANKER AND P.A. SWITCHES

NOTE: Color code of wire is for convenience. Any color wire may be used.



COURIER GALAXY MODIFICATION CONTINUED:



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